



## SEQUENCE LISTING

<110> Ota, Toshio  
Nishikawa, Tetsuo  
Salamov, Asaf  
Isogai, Takao

<120> METHOD FOR SCREENING FULL-LENGTH cDNA CLONES

<130> 06501-058001

<140> 09/529,962

<141> 2000-04-20

<150> JP 9/289982

<151> 1997-10-22

<150> PCT/JP98/04772

<151> 1998-10-21

<160> 18

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 30

<212> RNA

<213> Artificial Sequence

<220>

<223> Oligo-capping linker sequence

<400> 1

agcaucgagu cggccuuguu ggccuacugg

30

<210> 2

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligo(dT) adapter primer sequence

<400> 2

gcggctgaag acggcctatg tggcttttt ttttttttt tt

42

<210> 3

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Random adapter primer sequence

<221> misc\_feature

&lt;222&gt; (1)...(32)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 3

gcggctgaag acggcctatg tggccnnnn nc

32

&lt;210&gt; 4

&lt;211&gt; 880

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(880)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 4

atgcggccgc	gcggccctat	aggcgctcc	tccgcccggcc	gcccgggagc	cgcagccgccc	60
gccgccactg	ccactccccgc	tctctcagcg	ccggcgtcg	caccggccacc	gccactgcca	120
ctaccaccgt	ctgagtctgc	agtcccggaga	tcccagccat	catgtccata	gagaagatct	180
ggggccggga	gatcctggac	tcccgcgaaaa	accccacagt	ggaggtggat	ctctatactg	240
ccaaagggtcc	tttccgggct	gcagtgcaca	gtggagcctc	tacgggcata	tatgaggccc	300
tggagctgag	ggatggagac	aaacagcggt	acttaggcaa	aggtgtcctg	aaggcagtgg	360
accacatcaa	ctccaccatc	gcggcagccc	tcatcagctc	aggtctctct	gtgggtggagc	420
aagagaaaact	ggacaaacctg	atgctggagt	tggatggac	tgagaacaaa	tccaagtttg	480
ggggcaaatcc	atcctgggtg	tgtctctggc	cgtgttaag	gcangggcaa	ctgaacngga	540
actgcccctg	tatcgccaca	ttgctcagct	tggncgggaa	ctcanacctc	atcctgcctg	600
ttggcggcct	tcaacgtgat	caatggttgg	cttctcatgc	ctggcaacaaa	anctggccat	660
tgcnggaatt	ttcatgatcc	tccccnttgg	gaaactgaaa	aactttccgg	aatgcccnc	720
caactaagtt	gcaaaaaggtc	taccnatacc	ccccaaagggg	aattcctcca	agggaaacaaa	780
tncccgggaa	aggaatgccc	cccaattntt	nggggaata	aaaggtggc	tttgcxxxxxx	840
catttcctg	aaaaaaacna	taaaaaccct	tggaaactt			880

&lt;210&gt; 5

&lt;211&gt; 645

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(645)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 5

tgtgcgttac	ttacctcnac	tcttagcttg	tcggggacgg	taaccgggac	ccggtgtctg	60
ctctgtcgc	cttcgcctcc	taatccctag	ccactatgcg	tgagtgcata	tccatccacg	120
ttggccaggc	tgggtccan	attggcaatg	cctgctggga	gctctactgc	ctggAACACG	180
gcatccagcc	cgatggccag	atgccaagtg	acaagaccat	tgggggagga	gatgactcct	240
tcaacacctt	tttcagtgag	acgggcgtg	gcaancacgt	gccccgggct	gtgtttgtag	300
acttggaaacc	cacagtccatt	gatgaagttc	gcactggcac	ctaccggccag	ctcttccacc	360
ctgagcagct	catcnccaggc	aaggaagatg	ctgccaataa	ctatgcccga	gggcactaca	420
ccattggcaa	ggagatcatt	gaccttgtgt	tggaccgaat	tcgcaagctg	gctgaccant	480
gcaccggct	tcanggcttc	ttggtttcc	acagcttgg	tgggggaact	ggttctgggt	540
tcaccccttct	gctcatggaa	cgtctctcag	ttgattatgg	caagaaatcc	aagctggagt	600
tctccattta	cccagcaccc	cnggttccn	cngctgtant	tngaa		645

&lt;210&gt; 6

<211> 820  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1) ... (820)  
<223> n = A,T,C or G

<400> 6

ctttttcgc aacgggtttg ccgccagaac acaggtgtcg taaaaactac ccctaaaagc	60
caaaaatggga aaggaaaaga ctcatatcaa cattgtcgac attggacacg tagattcggg	120
caagtccacc actactggcc atctgatcta taaatgcggt ggcacatcgaca aaagaaccat	180
tgaaaaattt gagaaggagg ctgctgagat gggaaagggc tccttcaagt atgcctgggt	240
cttggataaaa ctgaaagctg agcgtgaacg tggtatcacc attgatatact ctttgtggaa	300
atttgagacc agcaagtact atgtgactat cattgatgcc ccaggacaca gagactttat	360
caaaaacatg attacaggga catctcaggc tgactgtgct gtcctgattt ttgctgctgg	420
tgttggtgaa tttgaagctg gtatctccaa gaatgggcag acccgagagc atgccttct	480
ggcttacaca ctgggtgtga aacaactaat tgtcgtgtt aacaaaatgg attcaactgan	540
ccaccctaca gccagaagaa atatgangaa attgttaagg aagttagcac ttacattaag	600
aaaattggct acaaccccga cacagtanca tttgtgccaa tttctgggtt gaatggtgac	660
aacatgctgg aaccaantgc taacatgcct tggttccagg gatggaaaat cccccnttaa	720
ggatggcnat gccattggaa ccccccgtct tgaaggctt ggantgcac tancaccaa	780
ctccttcaaa ttgaaaaacc cttgcnnccc gcctccncca	820

<210> 7  
<211> 788  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1) ... (788)  
<223> n = A,T,C or G

<400> 7

gaggctgagg cagtggctcc ttgcacagca gctggacgac ccgtggctcc ggatctttc	60
gtcttgcag cgtagcccgaa gtcgggtcagc gcccggaggac ctcagcagcc atgtcgaaac	120
cccatatgtga agccggact gcttcatttcc agaccaggca gctgcacgca gccatggctg	180
acacatttctt ggagcacatg tgccgcctgg acatttatttcc accaccatc acagcccgaa	240
acactggcat catctgtacc attggcccaag cttccgatc agtggagacg ttgaaggaga	300
tgattaagtc tggaaatgaat gtggctcgac tgaacttctc tcatggaaact catgagtacc	360
atgcggagac catcaagaat gtgcgcacag ccacggaaag ctttgcttctt gacccatcc	420
tctaccggcc cggtgcgtg gctctagaca ctaaaggacc tgagatccga actggctca	480
tcaagggcag cggcactgca gaggtggagc tgaagaatgg agccactctc aaaatcacgc	540
tggataatgc ctacatggaa aagtgtgacg agaacatctt gtggctggac tacaagaaca	600
tctgcaagggt ggtggaaatgt ggcacacaaga tctacgtgga tgatggctn attttcttcc	660
aggtgaacac aaagggtggccg acttcctggg tgacngangt gaaaaatggt ggctccctgg	720
gcncacaaaaa ggtgtgaact tcctggggct gctgtggant tgcctgctgt gtcngaaaaa	780
gacatcca	788

<210> 8  
<211> 608  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(608)

<223> n = A,T,C or G

<400> 8

acagcctggc	tcctttgagt	atgaatatgc	catgcgctgg	aaggcactca	ttgagatgga	60
gaagcagcag	caggaccaag	tggaccgcaa	catcnaggag	gctcgtagaga	agctggagat	120
ggagatggaa	gctgcacgcc	atgagcacca	ggtcatgcta	atgagacagg	attttagatgag	180
gcgccaagaa	gaacttcgga	ggatggaaga	gctgcacaac	caagangtgc	aaaaaacgaaa	240
gcaactggag	ctcaggcagg	agaanagcg	caggccgt	gaagaanaga	tgcggcggca	300
gcaagaagaa	atgatgcggc	gacngcagga	aggattcaag	gaaaccttcc	ctgatgcgag	360
agagcaggag	attcgatgg	gtcnatggc	tatggaggt	gctatggc	taaacnacag	420
atgtccatg	ccccctgctc	ctgtgccagc	tggtacccca	gctcctccag	gacctgccac	480
tattatgccg	gatgaaactt	tgggattgac	cccacccnaca	actgaacgct	ttggtcnggc	540
tgctacnatg	gaangaattt	ggcaattgg	tggaaactcct	cctgcattcn	accgtgcagc	600
tcctggaa						608

<210> 9

<211> 608

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(608)

<223> n = A,T,C or G

<400> 9

atattaaact	agtgaagcaa	ctaagagaaa	atgttaagtc	tgctatttat	cttgaagaga	60
tggcatctgg	tcttaacaaa	agaaaaatga	ttcagcatgc	tgtattttaa	gaacttgtga	120
agcttgtaga	ccctggagtt	aaggcatgga	cacccactaa	aggaaaacaa	aatgtgatta	180
tgtttgttgg	attgcaaggg	atgtgtttaa	caacaacatg	ttcaaagcta	gcataattatt	240
accagaggaa	aggttgaag	acctgtttaa	tatgtcaga	cacattcaga	gcagggcgtt	300
ttgaccaact	aaaacagaat	gttccaaag	caagaattcc	attttatgga	agctatacag	360
aaatggatcc	tgtcatcatt	gttctgaaag	gatgttttttt	attttttttt	gaaaattttt	420
aaattattat	tgttgataca	agtggccgccc	acaaacaaga	agactctttt	tttgaagaaaa	480
tgcttcaagt	tgctaatgct	atacaacctg	ataacattgt	ttatgtgatg	gatgcctcca	540
ttgggcaggc	ttgtgaagcc	caggcttaagg	cttttaaaga	taaagttagat	gtacctcagt	600
aatagtgaca	aaacttggat	gcacatgcaaa	angaagtgg	gcactcagt	cagtcgtgc	660
cacaaaaaat	ccgattattt	tcattggat	aggggaaca	tatanatgac	tttgaacctt	720
tcaaaaacac	agcctttat	taacaaactt	tttggatng	gacatttgc	aaggactgat	780
aaataaaatgtc	cacnaattga	aatttggat	acnatgnaaa	cccttattga	aaaaattgaa	840
acatngtcca	gttttacttt	gcaaaacnt				869

<210> 10

<211> 813

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(813)

<223> n = A,T,C or G

<400> 10

gttgggttat	ctgtatataag	aaatgcccctt	ttggccctt	atcaatttgc	aatctaccaa	60
gcaacttggaa	aaaagaaaacc	acacatcgat	attgtccaa	tgcctcaaa	cttcacaggt	120

tgcctatccc tcgtccaggtaaagtttgg gattagttgg aactaatggtagtggaaagt  
caactgcttt aaaaatttttgcaggaaaaac aaaagccaaa cttggaaag tacgatgatc  
ctcctgactggcaggagatt ttgacttatt tccgtggatc tgaattacaa aattacttta  
caaagattct agaagatgactaaaagccatcatcaaacc tcaatatgtatcaggattc  
ctaaggctgcaaggggaca gtgggatcta ttttgacccaaaagatgaa acaaagacac  
aggcaatttgtatgtcagcag ctgtttaa cccacctaa agaacgaaat gttgaagatc  
tttcaggagg agagttgcag agatggctt gtgtgtcgttgcatacagaagctgata  
ttttcatgtttgatgagccttctagttacc tagatgtcaa gcagcgttta aaggctgcta  
ttactatacg atctctaata aatccagata gatatatcat tgggtggaa catgatctaa  
gtgttattaga ctatctctcc gacttcatct gctgtttata tggtgatcca agcgcctatg  
gaattgtcac tatgcctttt agtgttagaa aaggcataaaa cttttttgg atgggtatgt  
tccaaacagaa aacttganaatcnnaaatgcn

```
<210> 11  
<211> 655  
<212> DNA  
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(655)
<223> n = A,T,C or G
```

```
<400> 11
agaactctcac cgcaagcggcc aggaacgcca gccgttcacg cgttcggtcc tccttggctg 60
actcaccgccc ctcgcccgcg caccatggac gccccccaggc aggtggtaa ctggggcct 120
ggtcccggca agctgcccga ctcagtggtt ttagagatac aaaaggaaatt attagactac 180
aaaggagttt gcattagtgt tcttggaaatg agtcacagggt catcagattt tgccaaaggatt 240
attaacaata cagagaatct tggcgggaa ttgctagctg ttccagacaa ctataagggtg 300
atttttctgc aaggagggtgg gtgcggccag ttcatgtctg tcccccttaaa cctcattggc 360
ttgaaaagcag gaagggtgtgc ggactatgtg gtgacaggag cttggtcagc taaggccgca 420
gaagaagcca agaagtttgg gactataaat atcgttcacc ctaaaacttgg gagttataaca 480
aaaattccag atccaaagcac ctggAACCTC aacccanatg cctcctacgt gttttattgc 540
ncaaataaaaaa cgggtcatgg tgggtttttt gactttataac ccnatgtcaa ggaaacanta 600
ctgggtttgtg acattttcct ccaacttcct gtccaancca attgnatgtt tccaa 655
```

<210> 12  
<211> 599  
<212> DNA  
<213> *Homo sapiens*

```
<220>
<221> misc_feature
<222> (1)...(599)
<223> n = A, T, C or G
```

```
<400> 12
aaagatgcgc aggcccggtg tggcactcg gggtcgaaaag gggagttcaa ggagacgggg 60
gacgcggc tgagggcttc tcgtcggggt cggggctgca gccgtcatgc cggggatagt 120
ggagctgccc actcttagagg agctgaaaagt agatgagggtg aaaatttagtt ctgctgtgt 180
taaagctgcg gcccatcaact atggagctca atgtgataag cccaaacaagg aatttatgtct 240
ctgccgttgg gaanagaaaag atccgaggcg gtgccttagag gaaggcaaacc ttgtcaacaa 300
gtgtgctttg gacttcttta ggcagataaa acgtcaactgt gcagagcctt ttacagaata 360
ttggacttgc attgattata ctggccagca gttatttcgt cactgtcgca aacagcaggc 420
aaagtttgac nagtgtgtgc tggacaaaact gggctgggtt cggcctgacc tggggaaaact 480
gtcaaaggtc accaaagtga aaacagatcn accttaccg ganaatccct atcactcaag 540
aacaagaacg gatcccagcc ctganatcna agggaaatctg cancctgcca cacatggca 599
```

<210> 13  
 <211> 597  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(597)  
 <223> n = A,T,C or G

<400> 13

atatccggag	tagacggagc	cgcagttagac	ggatccgcgg	ctgcaccaaa	cactgcccct	60
cggagcctgg	tagtggcca	caagccccca	gtcccagagg	cgtgattttc	tggcatcctt	120
aatcttgtg	tcaaggattg	gttataatat	aaccagaaac	catgacggcg	gctgagaacg	180
tatgctcac	gttaattaac	gtgccaatgg	attcagaacc	accatctgaa	attagcttaa	240
aaaatgatct	agaaaaagga	gatgtaaagt	caaagactga	agctttgaag	aaagtaatca	300
ttatgattct	gaatggtaaa	aaacttcctg	gacttctgtat	gaccatcatt	cgttttggtc	360
tacctttca	ggatcacact	atcaagaaat	tacttctgg	attttggag	attttccta	420
aaacaactcc	agatgggaga	cttttacatg	agatgatcct	tgtatgtat	gcatacagaa	480
aggatcttca	acatcctaat	gaatttatttc	naaggatcta	ctttcggtt	tctttgc当地	540
ttgaaanaaa	canaattgct	aaaaccttta	atgccancta	tncctgcatt	tttggga	597

<210> 14  
 <211> 634  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(634)  
 <223> n = A,T,C or G

<400> 14

agactctcac	cgcagcggcc	aggaacgcca	gccgttcacg	cgttcggtcc	tccttggctg	60
actcaccgccc	ctcgccgccc	caccatggac	gccccccaggc	aggtggtcaa	ctttgggcct	120
ggtcccgcca	agctgcgcga	ctcagtgtt	ttagagatac	aaaaggaatt	attagactac	180
aaagganttg	gcattagtgt	tcttgaatag	agtcacaggt	catcagattt	tgccaaaggatt	240
attaacaata	cagagaatct	tgtgcgggaa	ttgctagctg	ttccagacaa	ctataagggt	300
attttctgc	aaggaggtgg	gtgcggccag	ttcagtgctg	tccccttaaa	cctcattggc	360
ttgaaagcag	gaangtgtgc	ggactatgtg	gtgacaggag	cttggtcagc	taagccgca	420
naanaagcca	agaantttgg	gactataat	atcggttacc	ctaaacttgg	gagttataca	480
aaaattccag	atccaagcac	ctggAACCTC	aaccaggatg	cctcctacgt	gtattattgc	540
gcnaatgaaa	cngtgcattgg	tgtggantct	gactttatac	ccgatgtcna	gggaacatac	600
tggtttgc当地	catgtcctca	aacttcccgt	ccna			634

<210> 15  
 <211> 757  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(757)  
 <223> n = A,T,C or G

<400> 15

agtctgcgggt	gggctancgg	acggtccggc	ttccggcggc	cgtttctgtc	tcttgctggc	60
tgtctcgctg	aatcgccggcc	gccttctcat	cgctcttgc	aggtcccggag	cgcgacaccca	120
tgtcggaacc	cggggggccggc	ggcgccgaag	acngctcgcc	cgattggaa	gtgtcgcccg	180
tgcanaatgt	ggcggacgtg	tcgggtctgc	anaagcacct	gwgcaagctg	gtgcccgtgc	240
tgctggagga	cggcggcgaa	gcccggcccg	cgctggaggc	gwgctggag	gagaagagcg	300
ccctggagca	gatgcgcaag	ttcccttcgg	acccgacgt	ccacacgggt	ctgggtggagc	360
gctccacgct	caaagtggac	gtcggtgatg	aaggagaaga	agaaaaaagaa	ttcatttcct	420
ataacatcaa	cntagacatt	caactatgggg	ttaaatccaa	tagttggca	ttcattaaac	480
gtactcccg	gattgatgca	gataaaacccg	tgtcttctca	nctccgggtc	cttacactca	540
gtgaanactc	nccctacnaa	aactttgcat	tctttcatta	acaatgcagt	ggctcccttt	600
tttaantcct	acattaaaaaa	atctggcaag	gcaaacaggg	atggtgataa	aatggctcct	660
tccnttgaaa	aaaaaaattgc	cgaactcnnaa	atnggactcc	ttcccttgca	ncaaaatttt	720
tgaaattccg	gaaaatcanc	ctgccccatt	cctcccc			757

<210> 16  
<211> 300  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(300)  
<223> n = A,T,C or G

<400> 16						
atcatttcct	tatttatatt	tcatgttgg	atgcttaaat	cgataaacctt	tgtatTTGA	60
agtgcgcgac	atggaaagggt	atctgcaaga	gctgcatcag	tcaaacacccg	ggggataaaat	120
ctggattttgg	gttccggcgt	caaggtgaag	ataataccta	aagaggaaca	ctgtaaaatg	180
ccagaagcag	gtgaanagca	accacaagtt	taaatgaaga	caagctgaaa	caacgcaagc	240
tggtttata	tttagatattt	gacttaaact	atctcaataa	agttttgcag	ctttcaccac	300

<210> 17  
<211> 313  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(313)  
<223> n = A,T,C or G

<400> 17						
aaagatggcg	gcgggggagg	taggcagagc	aggacgccgc	tgctgccggc	gccaccggccg	60
cctccgctcc	agtcgcctcc	ggtccttcaa	actcacacct	cccgaggaga	gctgtcctgg	120
cgcgggtcc	cgcggggaaa	atggtggagc	caggcaaga	tttactgctt	gctgtttga	180
gtgagagtgg	aattagtcgg	aatgactctt	tgtatattgat	ggtggagatg	canggcttgc	240
aactccaatg	cctaccctgt	cagttcagca	ntcagtgcct	tttattgtcat	tanaactang	300
tttggagacc	gaa					313

<210> 18  
<211> 667  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(667)

<223> n = A, T, C or G.

<400> 18

actggcggtc	tcggcgtag	tcgctgcggg	gctgacgggg	tggcagtgcg	gcgggttacg	60
gcctggtcag	accataatga	cttcagcaaa	taaagaatac	gaattacaac	tacaagtgaa	120
acaaaatgca	gaagaattac	aagactttat	gcgggattta	aaaaactggg	aaaaagacat	180
taaacaaaag	gatatggaac	taagaagaca	aatgggttt	cctgaagaga	atttacctcc	240
tattcgaat	ggaaattttt	ggaaaaagaa	gaaaggcaaa	gctaaagagt	cttccccaaa	300
acanagagg	aaaacacnaa	aaacaggata	aaatcttatg	attatganc	atggcaaaa	360
cttgatgtgg	accgtatcct	tgtgagctt	gacaaagacg	atagtaccca	tgagtctctg	420
tctcaagaat	cagagtgg	agaagatggg	attcatgttg	attcncnaaa	ggctttgtt	480
ttaaaagaaa	agggnataa	atacttccac	aaggaaaata	tgatgaagca	attgactgct	540
acacnaaagg	cntggatgcc	gatccatatt	atcccgttt	gccaacgaac	anaacntccg	600
catattttag	actgaaaaaa	tttgctgtt	ctgaatctga	ttgttattta	ncanttgct	660
tgaaaata						667

*SL  
Mac*